## Type 122: 1.2m Rx/Tx Class I Antenna System



- ISO 9001:2008 Certificate of Registration
- All materials comply with EU Directive No. 2011/95/EC (RoHS).
- One-piece precision offset thermoset-molded reflector.
- Available with Ku-band copol or cross-pol feeds.
- Galvanized 19 mm (.75 in)
   O.D. feed support legs for lightweight outdoor units (ODU's).
- Plated hardware for maximum corrosion resistance.
- Az/El mount includes both elevation and azimuth fine adjustments.
- Class I system designed for typical lightweight Ku-band RF Electronics.\*
- Marinised version option is finished in a 2-part Epoxy paint on all 316 stainless steel hardware and galvanised steel fabricated components.



\* 2.0 kg or 4.5 lb max. weight (For BUC and LNB) 2.2 kg or 4.8 lb max. weight (For Transceiver)







The **Skyware Global 1.2m Rx/Tx Class I Antenna** is a rugged commercial grade product suitable for the most demanding applications.

- The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain the critical parabolic shape necessary for transmit performance.
- The precision Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector.
- The Az/El mount secures the antenna to any 73-76 mm (2.88"-3.00") mast and prevents slippage in high winds.
- A specially formulated powder paint process offers excellent protection from weather-related corrosion.
- The antenna features a unique feed which provides cross-pol performance that exceeds industry standards.



## PRODUCT SPECIFICATIONS

Type Approval Information
Antenna Model 62-1225401/02
(See Our Website for a Complete List of Type Approvals)
RF Performance
Effective Aperture1.2m (48 in)
Operating Frequency         13.75-14.50GHz           RX         10.70-12.75GHz
Polarization Linear, Orthogonal (Co-Pol Optional)
Gain (±0.3 dB)         TX       .43.3 dBi @ 14.3GHz         RX       .41.8 dBi @ 12.0GHz
3 dB Beamwidth TX1.2° @ 14.3GHz RX1.5° @ 12.0GHz
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Antenna Cross-Polarization
Antenna Noise Temperature  10° EL
VSWR TX
Isolation (Port to Port) TX
Feed Interface TX

## 1.2 m Rx/Tx Class I Antenna

## **Mechanical Performance**

Reflector Material Glass Fiber Reinforced Polyester
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation over Azimuth
Elevation Adjustment Range 8°-90° Continuous Fine Adjustment
Azimuth Adjustment Range 360° Continuous ± 5° Fine Adjustment
Mast Pipe Interface73-76mm (2.88in-3.00in) Diameter
<b>Enviromental Performance</b>
Wind Loading Operational
Functional Survival
Ultimate Survival
Operational Temperature
Survival Temperature
Humidity 0 to 100% (Condensing)
Atmosphere Standard Hardware 500 Hrs  SST Requirements (ASTM B-117)
Solar Radiation

Shock and Vibration. . . . . . . . . . . . . . . . . As Encountered during Shipping and handling



